QC ABSTRACT

NAME OF WORK: Construction of Ward Office in Ward No.05, Byatarayanapura

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M15)	Compressive Strength(7days and 28days)	5 set /51-100 cum	59.66	10	10
7	RCC(M25)	Compressive Strength(7days and 28days)	8 set /200-250 cum	209.65	16	16
8	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	18.36	6	6
9	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	18.36	6	6
10	RMC(M25)	Compressive Strength(7days and 28days)	7 set /150-200 cum	168.4	14	14
11	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-12-30-78** **Date: 08-09-20**
Project Name	:	Construction of Ward Office in Ward No.05, Byatarayanapura
Agency	:	Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/97/2020-21
Date of Receipt	:	05-09-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test		05-09-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

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Sl No	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	_
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2020-12-30-78	**Date: 03-10-20**
Project Name	:	Construction of Ward Office in Ward No.05, Byatarayanapura	
Agency	:	Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064	
Customer's Reference	:	EE(Project)/Ynk Zone/WO/97/2020-21	
Date of Receipt	:	05-09-20	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	05-09-20	
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%	

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Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-30-78** **Date: 08-09-20**
Project Name	:	Construction of Ward Office in Ward No.05, Byatarayanapura
Agency	:	Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer's Reference	:	EE(Project)/Ynk Zone/WO/97/2020-21
Date of Receipt	:	05-09-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	05-09-20

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-30-78 Date: 08-09-20

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PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.23	_

** The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-12-30-78** **Date: 08-09-20**
Project Name	:	Construction of Ward Office in Ward No.05, Byatarayanapura
Agency	:	Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064
Customer Reference	:	EE(Project)/Ynk Zone/WO/97/2020-21
Date of Receipt	:	05-09-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-09-20

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000 grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-12-30-78 Date: 08-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.5	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

*The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-12-30-78** **Date: 08-09-20**

Project Name : Construction of Ward Office in Ward No.05, Byatarayanapura

Agency : Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/97/2020-21

Date of Receipt : 05-09-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of Test : 05-09-20

Total weight taken : 1000 grams

Sl.No	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100 0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

: CP-2020-12-30-78 **Date: 08-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.15	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Lab ID : **CP-2020-12-30-78** **Date: 06-09-20**

Project Name : Construction of Ward Office in Ward No.05, Byatarayanapura

Agency : Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

Customer's Reference : EE(Project)/Ynk Zone/WO/97/2020-21

Date of Receipt : 05-09-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of Test : 05-09-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500	25	3.472	597	712	18.0%	Satisfactory	Satisfactory
7	Sunvik	Fe500	32	6.321	612	728	18.0%	Satisfactory	Satisfactory

**The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-30-78** **Date: 21/10/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 16-10-20

: PCC For SSM

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 21/10/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For SSM	M15	14/10/2020	21/10/2020	149.17 X 149.29 X 150.81	22270	**8.527**	283.0	12.7	12.6
PCC For SSM	M15	14/10/2020	21/10/2020	150.28 X 151.85 X 150.90	22820	**8.954**	279.1	12.2	
PCC For SSM	M15	14/10/2020	21/10/2020	150.39 X 151.89 X 149.60	22843	**8.578**	296.1	13.0	

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-30-78** **Date: 11/11/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 16-10-20

: PCC For SSM

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 11/11/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For SSM	M15	14/10/2020	11/11/2020	149.49 X 149.43 X 149.92	22338	**8.849**	395.8	17.7	17.5
PCC For SSM	M15	14/10/2020	11/11/2020	150.61 X 149.89 X 151.79	22574	**8.208**	392.8	17.4	
PCC For SSM	M15	14/10/2020	11/11/2020	151.51 X 149.26 X 149.85	22616	**8.034**	390.7	17.3	

Results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-30-78

Date: 21/10/2020

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 16-10-20

: PCC For SSM

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 21/10/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For SSM	M15	14/10/2020	21/10/2020	150.50 X 151.72 X 149.26	22834	**8.527**	289.1	12.7	12.6
PCC For SSM	M15	14/10/2020	21/10/2020	149.29 X 151.17 X 151.79	22568	**8.954**	282.3	12.5	
PCC For SSM	M15	14/10/2020	21/10/2020	149.43 X 150.92 X 151.78	22552	**8.578**	282.1	12.5	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-30-78** **Date: 11/11/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 16-10-20

: PCC For SSM

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 11/11/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC For SSM	M15	14/10/2020	11/11/2020	149.20 X 150.28 X 151.76	22422	**8.849**	394.0	17.6	17.6
PCC For SSM	M15	14/10/2020	11/11/2020	151.43 X 151.96 X 150.44	23011	**8.208**	406.0	17.6	
PCC For SSM	M15	14/10/2020	11/11/2020	150.21 X 151.33 X 149.71	22731	**8.034**	397.5	17.5	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-30-78 **Date: 17/11/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 11-11-20

: Plinth Area Concrete

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 16/11/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Area Concrete	M15	09/11/2020	16/11/2020	149.90 X 149.65 X 151.26	22433	8.527	288.8	12.9	12.7
Plinth Area Concrete	M15	09/11/2020	16/11/2020	150.23 X 149.54 X 151.55	22465	8.934	285.5	12.8	
Plinth Area Concrete	M15	09/11/2020	16/11/2020	149.44 X 150.37 X 150.91	22471	8.578	277.0	12.3	

Results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2020-12-30-78 **Date: 07/12/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 11-11-20

: Plinth Area Concrete

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Area Concrete	M15	09/11/2020	07/12/2020	150.03 X 149.88 X 151.84	22486	**8.849**	397.9	17.7	17.7
Plinth Area Concrete	M15	09/11/2020	07/12/2020	150.58 X 150.78 X 150.14	22704	**8.208**	405.3	17.9	
Plinth Area Concrete	M15	09/11/2020	07/12/2020	151.23 X 150.94 X 151.64	22826	**8.034**	403.8	17.7	

The results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-12-30-78** **Date: 17/11/2020**

: Construction of Ward Office in Ward No.05, Byatarayanapura

: Sri.S K Keshavamurthy, #104, Sampigehalli, Jakkur Post, Bangalore-560064

: EE(Project)/Ynk Zone/WO/97/2020-21

: 11-11-20

: Plinth Area Concrete

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 16/11/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Area Concrete	M15	09/11/2020	16/11/2020	150.99 X 149.95 X 149.62	22640	**8.527**	274.2	12.1	12.5
Plinth Area Concrete	M15	09/11/2020	16/11/2020	150.67 X 149.43 X 149.69	22515	**8.954**	285.0	12.7	
Plinth Area Concrete	M15	09/11/2020	16/11/2020	150.50 X 151.79 X 150.70	22844	**8.578**	291.7	12.8	

Results obtained are satisfactory as per standard requirements.

Asst. Executive Engineer
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BBMP, Bangalore - 92

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: Plinth Area Concrete

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Area Concrete	M15	09/11/2020	07/12/2020	150.59 X 151.42 X 149.44	22801	**8.849**	403.6	17.7	17.5
Plinth Area Concrete	M15	09/11/2020	07/12/2020	150.13 X 151.02 X 149.88	22672	**8.208**	394.6	17.4	
Plinth Area Concrete	M15	09/11/2020	07/12/2020	151.48 X 150.15 X 150.78	22744	**8.034**	392.7	17.3	

are satisfactory as per standard requirements.

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: 11-11-20

: Plinth Area Concrete

: 150X150X150 mm

: M15 / 7 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 16/11/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Plinth Area Concrete	M15	09/11/2020	16/11/2020	149.80 X 149.15 X 150.16	22343	**8.527**	275.6	12.3	12.3
Plinth Area Concrete	M15	09/11/2020	16/11/2020	149.29 X 150.70 X 149.03	22498	**8.954**	270.7	12.0	
Plinth Area Concrete	M15	09/11/2020	16/11/2020	149.21 X 151.99 X 150.60	22678	**8.578**	282.0	12.4	

are satisfactory as per standard requirements.

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BBMP, Bangalore - 92

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: Plinth Area Concrete

: 150X150X150 mm

: M15 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 07/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Plinth Area Concrete	M15	09/11/2020	07/12/2020	149.09 X 150.19 X 149.84	22392	**8.849**	386.0	17.2	17.3
Plinth Area Concrete	M15	09/11/2020	07/12/2020	151.79 X 149.82 X 150.27	22741	**8.208**	394.5	17.3	
Plinth Area Concrete	M15	09/11/2020	07/12/2020	151.74 X 150.86 X 151.94	22891	**8.034**	395.7	17.3	

The results obtained are satisfactory as per standard requirements.

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